

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID: SSSPTA1623PAZ

PASSWORD :

TERMINAL (ENTER 1, 2, 3, OR ?):2

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 Jul 12 BEILSTEIN enhanced with new display and select options, resulting in a closer connection to BABS
NEWS 4 AUG 02 IFIPAT/IFIUDB/IFICDB reloaded with new search and display fields
NEWS 5 AUG 02 CAplus and CA patent records enhanced with European and Japan Patent Office Classifications
NEWS 6 AUG 02 The Analysis Edition of STN Express with Discover! (Version 7.01 for Windows) now available
NEWS 7 AUG 27 BIOPHARMA: Changes and enhancements to content coverage
NEWS 8 AUG 27 BIOTECHABS/BIOTECHDS: Two new display fields added for legal status data from INPADOC
NEWS 9 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 10 SEP 01 New pricing for the Save Answers for SciFinder Wizard within STN Express with Discover!
NEWS 11 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 12 SEP 27 STANDARDS will no longer be available on STN
NEWS 13 SEP 27 SWETSCAN will no longer be available on STN

NEWS EXPRESS JULY 30 CURRENT WINDOWS VERSION IS V7.01, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 06:05:58 ON 21 OCT 2004

=> file reg
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY 0.21	TOTAL SESSION 0.21
-----------------------------	--------------------------

FILE 'REGISTRY' ENTERED AT 06:06:15 ON 21 OCT 2004
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STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> logoff hold			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	0.42	0.63	

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 06:06:23 ON 21 OCT 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'REGISTRY' AT 06:10:04 ON 21 OCT 2004
FILE 'REGISTRY' ENTERED AT 06:10:04 ON 21 OCT 2004
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	0.42	0.63	

=>
Uploading C:\Examination Auxillary files\10089036\10089036.clm 1.str



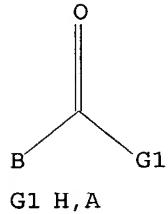
chain nodes :
1 2 3 4
chain bonds :
1-2 2-3 2-4
exact/norm bonds :
2-3 2-4
exact bonds :
1-2

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> search l1 sss sam
SAMPLE SEARCH INITIATED 06:11:37 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2911 TO ITERATE

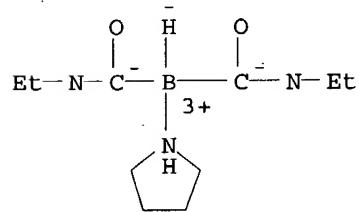
34.4% PROCESSED 1000 ITERATIONS 13 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 54985 TO 61455
PROJECTED ANSWERS: 387 TO 1125

L2 13 SEA SSS SAM L1

=> d scan

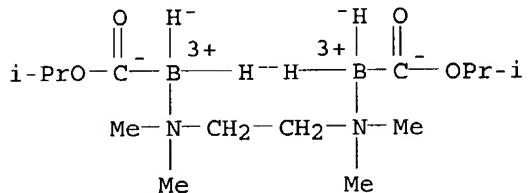
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, bis[(ethylamino)carbonyl]hydro(pyrrolidine)-, (T-4)- (9CI)
MF C10 H22 B N3 O2
CI CCS



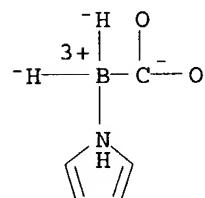
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, tetrahydrobis[(1-methylethoxy) carbonyl] [μ -[N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N']]di- (9CI)
 MF C14 H34 B2 N2 O4
 CI CCS



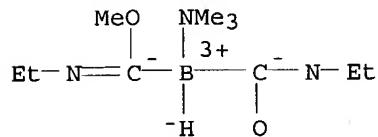
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), (carboxylato)dihydro(1H-pyrrole)-, (T-4)- (9CI)
 MF C5 H7 B N O2
 CI CCS, COM



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

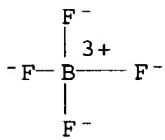
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, (N,N-dimethylmethanamine)[(ethylamino) carbonyl][(ethylimino)methoxy methyl]hydro-, (T-4)-, bis[tetrafluoroborate(1-)] (9CI)
 MF C10 H24 B N3 O2 . 2 B F4 . 2 H

CM 1



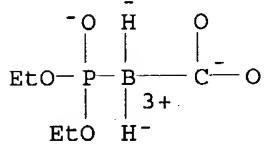
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

CM 2



● H⁺

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)(diethyl phosphito-P)dihydro-, sodium hydrogen,
 (T-4) - (9CI)
 MF C5 H12 B O5 P . H . Na
 CI CCS

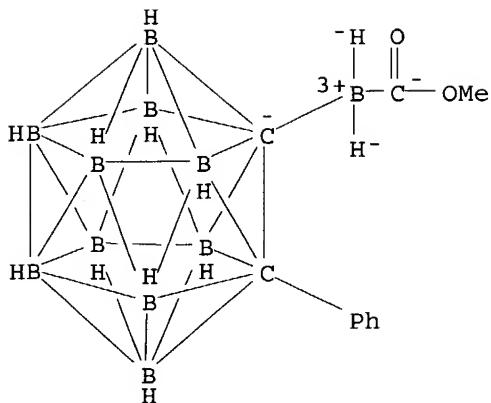


● H⁺

● Na⁺

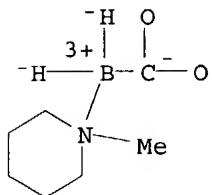
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), dihydro(methoxycarbonyl)(2-phenyl-1,2-dicarbadodecaboran(12)-1-yl)-, lithium, (T-4) - (9CI)
 MF C10 H20 B11 O2 . Li
 CI CCS



● Li⁺

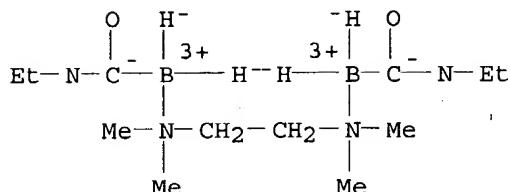
L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STM
 IN Borate(1-), (carboxylato)dihydro(1-methylpiperidine)-, hydrogen, (T-4) -
 (9CI)
 MF C7 H15 B N O2 . H
 CI CCS



● H⁺

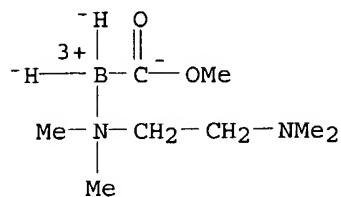
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STM
 IN Boron, bis[(ethylamino)carbonyl]tetrahydro[μ-(N,N,N',N'-tetramethyl-1,2-ethanediamine-N:N')]di- (9CI)
 MF C12 H32 B2 N4 O2
 CI CCS



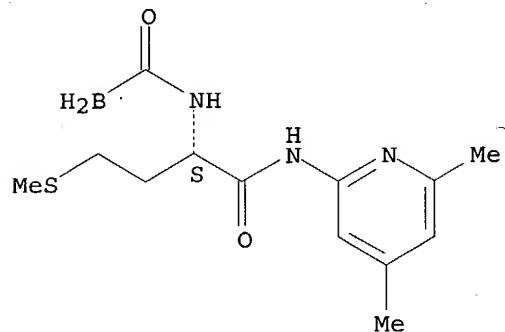
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, dihydro(methoxycarbonyl) (N,N,N',N'-tetramethyl-1,2-ethanediamine-
 κN)-, (T-4)- (9CI)
 MF C8 H21 B N2 O2
 CI CCS

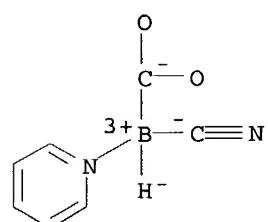


L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boranecarboxamide, N-[1-[(4,6-dimethyl-2-pyridinyl)amino]carbonyl]-3-
 (methylthio)propyl]-, (S)- (9CI)
 MF C13 H20 B N3 O2 S
 CI COM

Absolute stereochemistry.



L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), (carboxylato)(cyano-κC)hydro(methylpyridine)- (9CI)
 MF C8 H8 B N2 O2
 CI CCS, IDS, COM

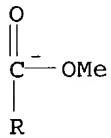
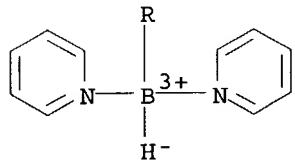


D1-Me

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

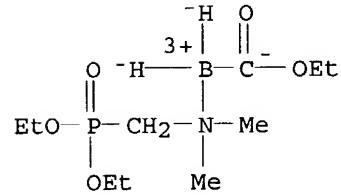
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):3

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron(1+), hydro(methoxycarbonyl)bis(pyridine)-, bromide, (T-4)- (9CI)
MF C12 H14 B N2 O2 . Br
CI CCS



● Br⁻

L2 13 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, [diethyl [(dimethylamino)methyl]phosphonate-
N] (ethoxycarbonyl)dihydro-, (T-4)- (9CI)
MF C10 H25 B N O5 P
CI CCS



ALL ANSWERS HAVE BEEN SCANNED

=> e Boron, bis((ethylamino)carbonyl)hydro(pyrrolidine)-, (T-4)-/c
EXPAND INCOMPLETE (SYSTEM ERROR)

COMMAND INTERRUPTED

The file that the system uses for index display in the EXPAND command is not available now. If this message appears repeatedly, please notify the Help Desk. Enter "HELP STN" for information on contacting the nearest STN Help Desk by telephone or via SEND in the STNMAIL file.

=> e Boron, bis((ethylamino)carbonyl)hydro(pyrrolidine)-, (T-4)-/cn

E1 1 BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRIDINE)-, (T-4)-, BIS(TETRAFLUOROBORATE(1-))/CN
 E2 1 BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRIDINE)-, (T-4)-, MONO(HEXAFLUOROPHOSPHATE(1-))/CN
 E3 1 --> BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRROLIDINE)-, (T-4)-/CN
 E4 1 BORON, BIS((ETHYLAMINO)CARBONYL)TETRAHYDRO(M-(N,N,N',N'-TETRAMETHYL-1,2-ETHANEDIAMINE-N:N'))DI-/CN
 E5 1 BORON, BIS((ETHYLAMINO)CARBONYL)TETRAHYDRO(M-(TETRAETHYL DIPHOSPHITE-KP:KP'))DI-/CN
 E6 1 BORON, BIS((ETHYLAMINO)IMINOMETHYL)TETRAHYDRO(M-(N,N,N',N'-TETRAMETHYL-1,2-ETHANEDIAMINE-N:N'))DI-/CN
 E7 1 BORON, BIS((ETHYLAMINO)THIOXOMETHYL)TETRAHYDRO(M-(N,N,N',N'-TETRAMETHYL-1,2-ETHANEDIAMINE-N:N'))DI-/CN
 E8 1 BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(4-METHYL PYRIDINE)-, (T-4)-/CN
 E9 1 BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(4-METHYL PYRIDINE)-, BIS(TETRAFLUOROBORATE(1-))/CN
 E10 1 BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(PYRIDINE)-, (T-4)-/CN
 E11 1 BORON, BIS((ETHYLIMINO)METHOXYMETHYL)HYDRO(PYRIDINE)-, (T-4)-, BIS(TETRAFLUOROBORATE(1-))/CN
 E12 1 BORON, BIS(A,A-DIPHENYL-2-PYRROLIDINEMETHANOLATO-N1,OA)DIMETHYL-M-OXODI-, (1S-(1A(1R*,2R*),2.ALPHA.))-/CN

=> e3

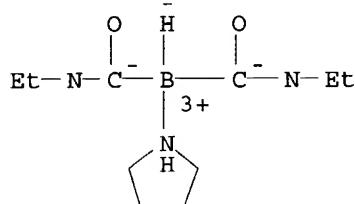
L3 1 "BORON, BIS((ETHYLAMINO)CARBONYL)HYDRO(PYRROLIDINE)-, (T-4)-"/CN

=> d13

L4 1 DL3

=> d 13

L3 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 340154-04-3 REGISTRY
 CN Boron, bis[(ethylamino)carbonyl]hydro(pyrrolidine)-, (T-4)- (9CI)
 (CA INDEX NAME)
 MF C10 H22 B N3 O2
 CI CCS
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation)



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
14.41	14.62

FILE 'CAPLUS' ENTERED AT 06:15:35 ON 21 OCT 2004
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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 13
L5 1 L3
=> d 15 ti fbib abs

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Syntheses of the First Amine-dicarboxyboranes and Their Bis(methylester) and Bis(N-ethylamide) Derivatives
AN 2001:174667 CAPLUS
DN 134:366926
TI Syntheses of the First Amine-dicarboxyboranes and Their Bis(methylester) and Bis(N-ethylamide) Derivatives
AU Gyoeri, Bela; Berente, Zoltan
CS Department of Inorganic and Analytical Chemistry, University of Debrecen, Debrecen, H-4010, Hung.
SO Inorganic Chemistry (2001), 40(8), 1770-1778
CODEN: INOCAJ; ISSN: 0020-1669
PB American Chemical Society
DT Journal
LA English
OS CASREACT 134:366926
AB Amine-bis(N-ethylcarbamoyl)boranes [A·BH(CONHET)2, 3; A = trimethylamine (Me3N, a), quinuclidine (Q, b), pyridine (py, f), 4-picoline (pic, g)] were prepared after deprotonation of [amine-bis(C-hydroxy-N-ethylimidate)hydroboron(2+)] cations (2), which were formed by the hydrolysis of [amine-bis(ethylnitrilium)hydroboron(2+)] tetrafluoroborates (1). Numerous representatives of 3 [A = diethylamine (Et2NH, c), piperidine (pip, d), pyrrolidine (pyrr, e), 4-aminopyridine (4-NH2-py, h), 4-(dimethylamino)pyridine (DMAP, i), imidazole (Him, j), 1-methylimidazole (Mim, k)] were prepared by base exchange reactions from 3a. 3A-e are extremely stable in aqueous media, either acidic or alkaline, probably because of the considerable steric hindrance of possible reaction centers. However, they were transformed into amine-dicarboxyboranes [A·BH(COOH)2, 4a-e] in acidic medium under vigorous conditions (100-130°). This transformation was accompanied by significant decomposition, probably owing to the protonation on the N atom, resulting in the rupture of the B-N bond. As an exception, 4b, where N atom in a rigid bicyclic system is not prone to attacks, could be isolated in very good yield. However, amine-bis(N-ethylcarbamoyl)boranes containing amines with sp2-hybridized N atoms (3f-k) undergo complete decomposition under similar conditions probably because of the increased hydridic character of the H

adjacent to B. Base exchange reactions starting from 4b resulted in the ammonium salts of 4c-e, h, i [A·BH(COOH)(COO-)] [AH⁺], which in turn could be transformed into the diacids 4, except 4h, by protonation. As salt formation indicates, the 4 compds. are stronger acids as univalent acids than the corresponding A·BH₂(COOH) complexes. 4A-e, i were readily esterified into amine-bis(methoxycarbonyl)boranes (5a-e, i) in MeOH, employing a catalytic amount of HBr. 5A-e, i are stable in alkaline medium but are readily hydrolyzed in acidic medium. Hydrolysis of [amine-bis(C-methoxy-N-ethylimidate)hydroboron(2+)] cations did not give the corresponding bisesters 5 in alkaline, neutral, or acidic medium.

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	7.83	22.45	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	-0.70	-0.70	

FILE 'REGISTRY' ENTERED AT 06:22:43 ON 21 OCT 2004
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

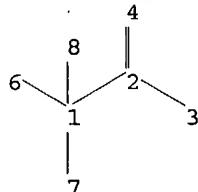
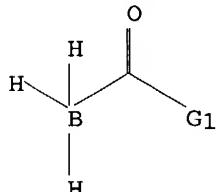
TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Examination Auxillary files\10089036\10089036 carboxyborane.str



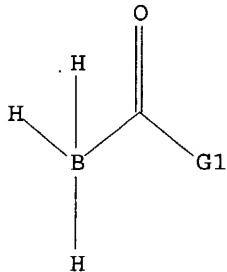
chain nodes :
1 2 3 4 6 7 8
chain bonds :
1-2 1-6 1-7 1-8 2-3 2-4
exact/norm bonds :
2-3 2-4
exact bonds :
1-2 1-6 1-7 1-8

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 6:CLASS 7:CLASS 8:CLASS

L6 STRUCTURE uploaded

=> d 16
L6 HAS NO ANSWERS
L6 STR



G1 H,A

Structure attributes must be viewed using STN Express query preparation.

=> search 16 sss sam
SAMPLE SEARCH INITIATED 06:23:26 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 2911 TO ITERATE

34.4% PROCESSED 1000 ITERATIONS 0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 54985 TO 61455
PROJECTED ANSWERS: 0 TO 0

L7 0 SEA SSS SAM L6

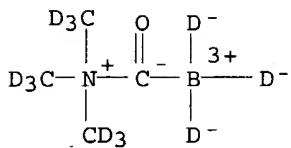
=> search 16 sss full
FULL SEARCH INITIATED 06:23:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 57303 TO ITERATE

100.0% PROCESSED 57303 ITERATIONS 50 ANSWERS
SEARCH TIME: 00.00.01

L8 50 SEA SSS FUL L6

=> d scan

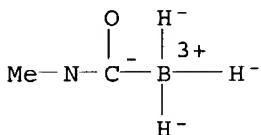
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Boron, [N,N-di(methyl-d3)methan-d3-aminium η -oxomethylide]trihydro-d3-
(9CI)
MF C4 B D12 N O
CI CCS



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), trihydro[(methylamino)carbonyl]-, (T-4)-, hydrogen, compd.
 with methanamine (1:1) (9CI)
 MF C2 H7 B N O . C H5 N . H

CM 1



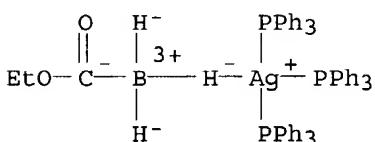
● H⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

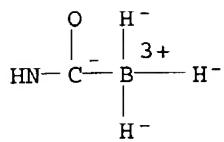
CM 2

H₃C—NH₂

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Silver, [(ethoxycarbonyl)trihydroborato(1-)-H]tris(triphenylphosphine)-,
 (T-4)- (9CI)
 MF C57 H53 Ag B O2 P3
 CI CCS



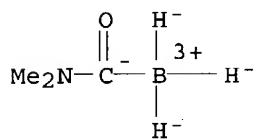
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), carbamoyltrihydro-, sodium (8CI)
 MF C H5 B N O . Na
 CI CCS



● Na^+

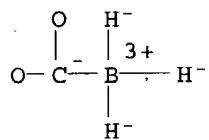
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, hydrogen, (T-4) - (9CI)
 MF C3 H9 B N O . H
 CI CCS, COM



● H^+

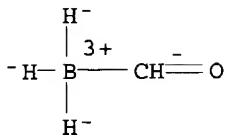
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, dihydrogen, (T-4) - (9CI)
 MF C H3 B O2 . 2 H
 CI CCS



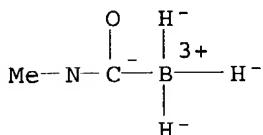
● 2 H^+

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), formyltrihydro-, (T-4) - (9CI)
 MF C H4 B O
 CI CCS



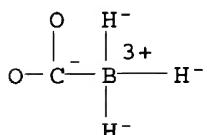
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), trihydro(methylcarbamoyl)-, potassium (8CI)
 MF C2 H7 B N O . K
 CI CCS



● K⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

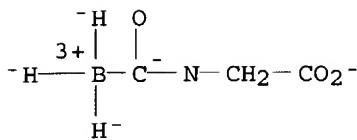
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4)- (9CI)
 MF C H3 B O2 . H
 CI CCS



● H⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

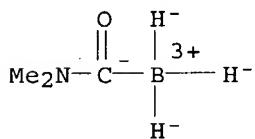
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), [(carboxylatomethyl)amino]carbonyltrihydro-, dipotassium,
 (T-4)- (9CI)
 MF C3 H6 B N O3 . 2 K
 CI CCS



● 2 K⁺

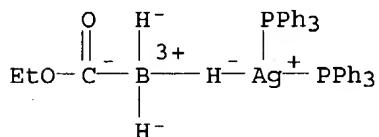
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, (T-4)- (9CI)
 MF C3 H9 B N O
 CI CCS, COM

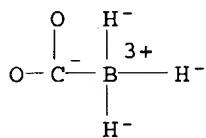


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Silver, [(ethoxycarbonyl)trihydroborato(1-)-H]bis(triphenylphosphine)- (9CI)
 MF C39 H38 Ag B O2 P2
 CI CCS



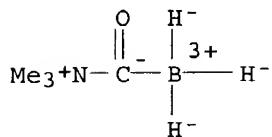
L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, calcium (8CI)
 MF C H3 B O2 . Ca
 CI CCS



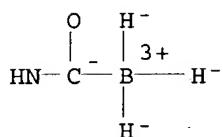
● Ca²⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Boron, (N,N-dimethylmethanaminium η -oxomethylide)trihydro- (9CI)
 MF C4 H12 B N O
 CI CCS

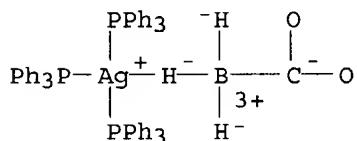


L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), (aminocarbonyl)trihydro-, (T-4)- (9CI)
 MF C H5 B N O
 CI CCS, COM



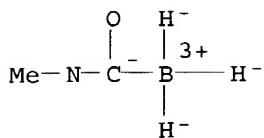
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Argentate(1-), [(carboxylato)trihydroborato(2-) -H]tris(triphenylphosphine) -
 , hydrogen, (T-4)- (9CI)
 MF C55 H48 Ag B O2 P3 . H
 CI CCS



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), trihydro[(methylamino)carbonyl]-, sodium, (T-4)- (9CI)
 MF C2 H7 B N O . Na
 CI CCS

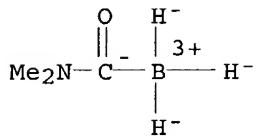


● Na^+

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(dimethylamino)carbonyl]trihydro-, (T-4)-, hydrogen, compd.
 with N-methylmethanamine (1:1) (9CI)
 MF C3 H9 B N O . C2 H7 N . H

CM 1

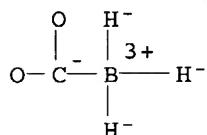


● H^+

CM 2



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(2-), (carboxylato)trihydro-, lead(2+) (8CI)
 MF C H3 B O2 . Pb
 CI CCS

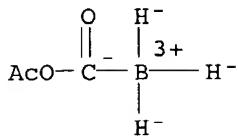


● $\text{Pb}(\text{II})^{2+}$

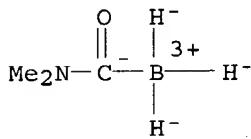
ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
 IN Borate(1-), [(acetyloxy)carbonyl]trihydro-, (T-4)- (9CI)

MF C3 H6 B O3
CI CCS



L8 50 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(1-), (dimethylcarbamoyl)trihydro-, potassium (8CI)
MF C3 H9 B N O . K
CI CCS



● K⁺

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

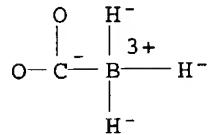
=> e Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4) -/cn
E1 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, DISODIUM, (T-4) -/CN
E2 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, LEAD(2+)/CN
E3 1 --> BORATE(2-), (CARBOXYLATO)TRIHYDRO-, MONOHYDROGEN, (T-4) -/CN
E4 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, POTASSIUM HYDROGEN, (T-4) -/CN
E5 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, SILVER COMPLEX/CN
E6 1 BORATE(2-), (CARBOXYLATO)TRIHYDRO-, SODIUM HYDROGEN, (T-4) -/CN
E7 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, (T-4) -/CN
E8 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, (T-4) -, DIHYDROGEN, COMPD. WITH N,N-DIPROPYL-1-PROPANAMINE (1:1)/CN
E9 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, DIHYDROGEN, (T-4) -/CN
E10 1 BORATE(2-), (CARBOXYLATO)TRIS(TRIFLUOROMETHYL)-, DIPOTASSIUM, (T-4) -/CN
E11 1 BORATE(2-), (CARBOXYLATOMETHYL)TRIPHENYL-, (T-4) -/CN
E12 1 BORATE(2-), (CARBOXYLATOMETHYL)TRIPHENYL-, (T-4) -, (OC-6-11)-HEXAAMMINECOBALT(3+) HYDROGEN (3:1:3)/CN

=> e3
L9 1 "BORATE(2-), (CARBOXYLATO)TRIHYDRO-, MONOHYDROGEN, (T-4) -" /CN

=> d 19

L9 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 333738-22-0 REGISTRY
CN Borate(2-), (carboxylato)trihydro-, monohydrogen, (T-4) - (9CI)
(CA INDEX NAME)
MF C H3 B O2 . H
CI CCS
SR CA

LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RLD.P Roles for non-specific derivatives from patents: PREP (Preparation);
RACT (Reactant or reagent)
CRN (66005-32-1)



● H⁺

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		163.30	185.75
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)		SINCE FILE	TOTAL
CA SUBSCRIBER PRICE		ENTRY	SESSION
		0.00	-0.70

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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> 19
L10 1 L9
=> d l10 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
TI Carbon monoxide source for preparation of transition metal carbonyl complexes

AN 2001:265426 CAPLUS
DN 134:289554
TI Carbon monoxide source for preparation of transition metal carbonyl complexes

IN Alberto, Roger Ariel
PA Mallinckrodt Inc., USA
SO PCT Int. Appl., 16 pp.
CODEN: PIXXD2

DT Patent
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025243	A1	20010412	WO 2000-EP9856	20001005
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			EP 1999-203254	A 19991005
EP	1218385	A1	20020703	EP 2000-972700	20001005
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			EP 1999-203254	A 19991005
				WO 2000-EP9856	W 20001005
JP	2003511334	T2	20030325	JP 2001-528187	20001005
				EP 1999-203254	A 19991005
				WO 2000-EP9856	W 20001005

OS CASREACT 134:289554; MARPAT 134:289554

AB The present invention relates to compds. that have a novel use as a carbon monoxide source and optionally as a reducing agent in the preparation of transition metal carbonyl complexes. The compds. are $(X_1)(X_2)(X_3)BC(O)Y$ where X_1 , X_2 and X_3 are the same or different and either a Lewis base or hydride and Y is a sigma donating group. The preparation of these compds. is described as is the use of H_3BCO as a reducing agent. Thus, $K_2H_3BCO_2$ was prepared by bubbling H_3BCO through an ethanolic KOH solution. $K_2H_3BCO_2$ can be reacted with $[^{99m}TcO_4]^-$ to generate $[^{99m}Tc(OH_2)(CO)_3]^+$.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	3.87	189.62
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-1.40

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STRUCTURE FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6
DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e Borate(1-), ((acetyloxy)carbonyl)trihydro-, (T-4)-/cn
E1 1 BORATE(1-), ((6-METHYL-1,3-CYCLOHEXANEDIYL)(1-METHYL-1,2-ETHANEDIYL))DIHYDRO-, LITHIUM, (T-4)-/CN
E2 1 BORATE(1-), ((6-METHYL-1,3-CYCLOHEXANEDIYL)(1-METHYL-1,2-ETHANEDIYL))HYDRO(1,1,2-TRIMETHYLPROPYL)-, LITHIUM, (T-4)-/CN
E3 1 --> BORATE(1-), ((ACETYLOXY)CARBONYL)TRIHYDRO-, (T-4)-/CN
E4 1 BORATE(1-), ((BORYLENEAMINO)METHYLENE)(CYANO-N)HYDRO-, HYDROGEN, (E,?)-/CN
E5 1 BORATE(1-), ((BORYLENEAMINO)METHYLENE)(CYANO-N)HYDRO-, HYDROGEN, (Z,?)-/CN
E6 1 BORATE(1-), ((CYANO-13C)-C)TRIPHENYL-, NICKEL COMPLEX/CN
E7 1 BORATE(1-), ((D-ERYTHRO-HEX-2-ENONIC ACID-KO5,KO
6) Γ -LACTONATO(2-))DIHYDROXY-, (T-4)-/CN
E8 1 BORATE(1-), ((DICYCLOHEXYLPHOSPHINO-KP)ACETATO)TRIHYDRO-, HYDROGEN, (T-4)-/CN
E9 1 BORATE(1-), ((DIETHOXYPHOSPHINYL)DIFLUOROMETHYL)TRIMETHOXY-, (T-4)-/CN
E10 1 BORATE(1-), ((DIETHOXYPHOSPHINYL)DIFLUOROMETHYL)TRIMETHOXY-, LITHIUM, (T-4)-/CN
E11 4 BORATE(1-), ((DIETHYL 3,3'-(1,2-ETHANEDIYL)DINITRILIO)BIS(2-(HYDROXYIMINO)BUTANOATO))(2)-O2,O2')DIFLUORO-, NICKEL COMPLEX/CN
E12 4 BORATE(1-), ((DIETHYL 3,3'-(1,3-PROPANEDIYL)DINITRILIO)BIS(2-(HYDROXYIMINO)BUTANOATO))(2)-O2,O2')DIFLUORO-, NICKEL COMPLEX/CN

=> e3

L11 1 "BORATE(1-), ((ACETYLOXY)CARBONYL)TRIHYDRO-, (T-4)-" /CN

=> d 111

L11 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN

RN 89869-70-5 REGISTRY

CN Borate(1-), [(acetyloxy)carbonyl]trihydro-, (T-4)- (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Acetic acid, anhydride with formic acid, boron complex

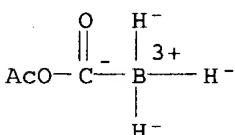
MF C3 H6 B O3

CI CCS

LC STN Files: CA, CAPLUS

DT.CA CAPplus document type: Journal

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	6.62	196.24	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	0.00	-1.40	

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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
 FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l11
 L12 1 L11
 => d l12 ti fbib abs

L12 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
 TI Predictive schemes for the reactivity of borane carbonyl and the stability of carbonyltrihydroborate anions, $\text{BH}_3\text{C}(\text{O})\text{X}^-$
 AN 1984:174885 CAPLUS
 DN 100:174885
 TI Predictive schemes for the reactivity of borane carbonyl and the stability of carbonyltrihydroborate anions, $\text{BH}_3\text{C}(\text{O})\text{X}^-$
 AU Spielvogel, Bernard F.; McPhail, Andrew T.; Knight, Jimmy A.; Moreland, Charles G.; Gatchell, Catherine L.; Morse, Karen W.
 CS Paul M. Gross Chem. Lab., Duke Univ., Durham, NC, 27706, USA
 SO Polyhedron (1983), 2(12), 1345-52
 CODEN: PLYHDE; ISSN: 0277-5387
 DT Journal
 LA English
 OS CASREACT 100:174885
 AB The reactivity of borane carbonyl (BH_3CO) and its isoelectronic counterpart the acetylium cation (CH_3CO^+) are compared resulting in the formulation of (carbonyl)trihydroborate anions, $\text{BH}_3\text{C}(\text{O})\text{X}^-$, which are isoelectronic and isostructural with organic carbonyls. By analogy with the ease of reduction of organic carbonyl compds. by hydroborate, the relative stability towards self-reduction-oxidation (hydride transfer from B to carbonyl C) in $\text{BH}_3\text{C}(\text{O})\text{X}^-$ is proposed. The postulated order, with increasing stability is: $\text{BH}_3\text{C}(\text{O})\text{Cl}^- < \text{BH}_3\text{C}(\text{O})\text{H}^- < \text{BH}_3\text{C}(\text{O})\text{R}^- < \text{BH}_3\text{C}(\text{O})\text{OR}^- < \text{BH}_3\text{C}(\text{O})\text{NR}_2^- < \text{BH}_3\text{C}(\text{O})_2^-$. Exptl. results of this study together with known chemical are consistent with the proposed order. Further, it is suggested that a similar predictive scheme may be applicable to the chemical of the

aminecarboxyboranes (B analogs of α -amino acids) and their derivs.

=> 18
L13 34 L8

=> save temp l13 boroncmpds/a
ANSWER SET L13 HAS BEEN SAVED AS 'BORONCMPDS/A'

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.27	204.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-2.10

SESSION WILL BE HELD FOR 60 MINUTES
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LOGINID:SSSPTA1623PAZ

PASSWORD:

* * * * * RECONNECTED TO STN INTERNATIONAL * * * * *
SESSION RESUMED IN FILE 'CPLUS' AT 06:37:47 ON 21 OCT 2004
FILE 'CPLUS' ENTERED AT 06:37:47 ON 21 OCT 2004
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FULL ESTIMATED COST	8.27	204.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.70	-2.10

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.27	204.51
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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DICTIONARY FILE UPDATES: 19 OCT 2004 HIGHEST RN 765878-56-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

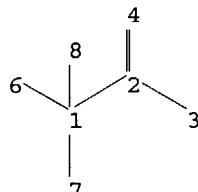
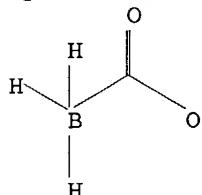
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>
Uploading C:\Examination Auxillary files\10089036\10089036 carboxyborane
specific.str



chain nodes :
1 2 3 4 6 7 8
chain bonds :
1-2 1-6 1-7 1-8 2-3 2-4
exact/norm bonds :
2-3 2-4
exact bonds :
1-2 1-6 1-7 1-8

G1:H,A

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 6:CLASS 7:CLASS 8:CLASS

L14 STRUCTURE UPLOADED

=> d 14

L4 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2004 ACS on STN
RN 526832-07-5 REGISTRY
CN DNA (Diplosoma listerianum clone DL3.9 microsatellite 3/9B-containing
fragment) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN GenBank AF508214
FS NUCLEIC ACID SEQUENCE
MF Unspecified
CI MAN
SR GenBank
LC STN Files: CA, CAPLUS, GENBANK
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
*** USE 'SQD' OR 'SQIDE' FORMATS TO DISPLAY SEQUENCE ***
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

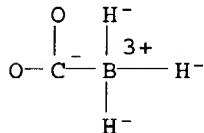
=> search 114 exact full
FULL SEARCH INITIATED 06:39:05 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 10 TO ITERATE

100.0% PROCESSED 10 ITERATIONS 1 ANSWERS
SEARCH TIME: 00.00.01

L15 1 SEA EXA FUL L14

=> d scan

L15 1 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN Borate(2-), (carboxylato)trihydro-, (T-4)- (9CI)
MF C H3 B O2
CI CCS, COM



ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 54.86 259.37

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL
ENTRY SESSION
CA SUBSCRIBER PRICE 0.00 -2.10

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FILE COVERS 1907 - 21 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 20 Oct 2004 (20041020/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> l15
L16 3 L15

=> d 116 1-3 ti fbib abs

L16 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI Carbon monoxide source for preparation of transition metal carbonyl complexes

AN 2001:265426 CAPLUS

DN 134:289554

TI Carbon monoxide source for preparation of transition metal carbonyl complexes

IN Alberto, Roger Ariel

PA Mallinckrodt Inc., USA

SO PCT Int. Appl., 16 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001025243	A1	20010412	WO 2000-EP9856	20001005
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			EP 1999-203254	A 19991005
EP	1218385	A1	20020703	EP 2000-972700	20001005
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			EP 1999-203254	A 19991005
				WO 2000-EP9856	W 20001005
JP	2003511334	T2	20030325	JP 2001-528187	20001005
				EP 1999-203254	A 19991005
				WO 2000-EP9856	W 20001005

OS CASREACT 134:289554; MARPAT 134:289554

AB The present invention relates to compds. that have a novel use as a carbon monoxide source and optionally as a reducing agent in the preparation of transition metal carbonyl complexes. The compds. are $(X_1)(X_2)(X_3)BC(O)Y$ where X_1 , X_2 and X_3 are the same or different and either a Lewis base or hydride and Y is a sigma donating group. The preparation of these compds. is described as is the use of H_3BCO as a reducing agent. Thus, $K_2H_3BCO_2$ was prepared by bubbling H_3BCO through an ethanolic KOH solution. $K_2H_3BCO_2$ can be reacted with $[^{99m}TcO_4]^-$ to generate $[^{99m}Tc(OH_2)(CO)_3]^+$.

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of $[^{99m}Tc(OH_2)_3(CO)_3]^+$

AN 2001:172533 CAPLUS

DN 134:375302

TI Synthesis and Properties of Boranocarbonate: A Convenient in Situ CO Source for the Aqueous Preparation of $[^{99m}Tc(OH_2)_3(CO)_3]^+$

AU Alberto, Roger; Ortner, Kirstin; Wheatley, Nigel; Schibli, Roger; Schubiger, August P.

CS Institute of Inorganic Chemistry, University of Zuerich, Zurich, CH-8057, Switz.

SO Journal of the American Chemical Society (2001), 123(13), 3135-3136
CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

OS CASREACT 134:375302

AB Using a boron-based carbonylating agent, [H₃BCO₂]⁻ which acts as an in situ CO source and a reducing agent at the same time, an organometallic transition-metal complex [99mTc(OH₂)₃(CO)₃]⁺ was feasibly prepared for the first time. K[H₃BCO₂] (2) was prepared from H₃BCO and KOH in alc. Crystals of [K(cryptand)]H₃BCO₂H were obtained after dissoln. of 2 in a THF solution of 4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8.]hexacosane. Aqueous solns. of 2 are strongly alkaline and quite stable toward heating, but the addition of a borate buffer allows the decomposition with half-lives in the order of tens of minutes. Kinetic measurements in buffered solns. show a second-order dependence of the rate of boranocarboxylate decomposition on proton decomposition. Borane carbonyl is formed when boranocarbonate salts are treated with strong acids.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L16 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
TI An investigation of the coordinating properties of the boranocarbonates and tetrahydroborate
AN 1978:130114 CAPLUS
DN 88:130114
TI An investigation of the coordinating properties of the boranocarbonates and tetrahydroborate
AU Bommer, Jerry Charles
CS Utah State Univ., Logan, UT, USA
SO (1977) 250 pp. Avail.: Univ. Microfilms Int., Order No. 7730634
From: Diss. Abstr. Int. B 1978, 38(8), 3687
DT Dissertation
LA English
AB Unavailable

=> logoff hold
COST IN U.S. DOLLARS
FULL ESTIMATED COST

	SINCE FILE ENTRY	TOTAL SESSION
	7.48	266.85

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)
CA SUBSCRIBER PRICE

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